

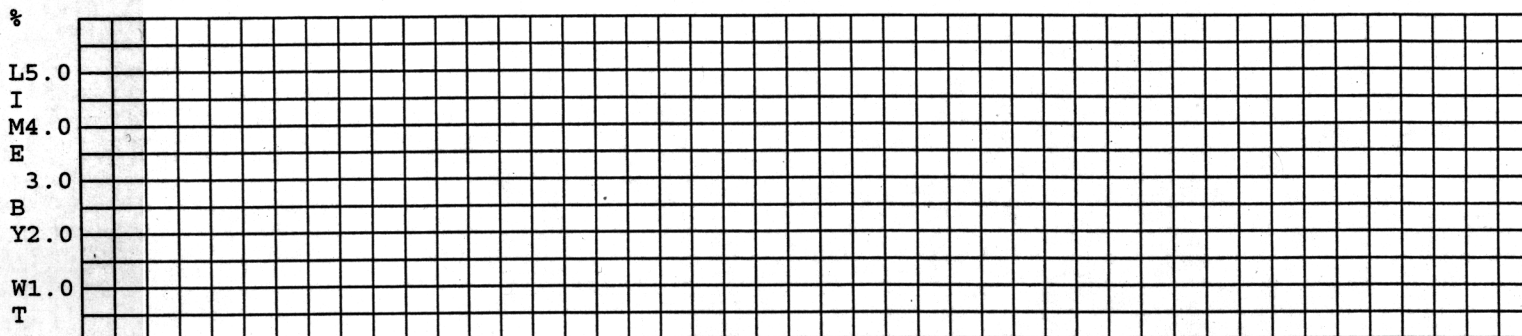
Louisiana Department of Transportation and Development
MATERIALS AND TESTING SECTIONDETERMINATION OF THE PERCENTAGE OF LIME TREATMENT
OF SOILS OR SOIL-AGGREGATE MIXTURES
(DOTD TR 416)

PROJECT NO.: _____ DATE: _____ LAB. NO.: _____
 TYPE SOIL: _____ SAMPLE NO.: _____ SPEC., LL: _____ PI: _____
 TESTED BY: _____ CHECKED BY: _____

Liquid Limit (From DOTD TR 428)	LL		
Plastic Limit (From DOTD TR 428)	PL		
Plasticity Index (From DOTD TR 428)	PI		
Max. Dry Weight Density (__ TR 418, __ TR 415-A), lb/ft ³	****		
Optimum Moisture Content, %	****		
Moisture Content of Sample (From DOTD TR 403), %	MC		
Wet Weight of Test Sample, lb or g	A		
Dry Weight of Test Sample, lb or g	B	$[A/(100 + MC)] \times 100$	
Weight of Test Sample @ Plastic Limit, lb or g	C	$B \times [(100 + PL)/100]$	
Weight of Test Sample After Adjustment, lb or g	D		
Moisture Content of Test Sample After Adjustment, %	E	$[(D-B)/B] \times 100$	

Test Specimen No.	***		1	2	3	4	5	6
Wet Weight of Test Specimen, g	F							
Lime By Dry Weight, %	n		1.0	2.0	3.0	4.0	5.0	
Weight of Lime Added to Test Specimen, g	G	$\frac{F}{100+E} \times n$						
Liquid Limit	LL _n							
Plastic Limit	PL _n							
Plasticity Index	PI _n							

GRAPH OF LL & PI vs. LIME BY WEIGHT



LL & PI

Recommended % Lime by Weight - LL: _____
 Recommended % Lime by Weight - PI: _____

Recommended % Lime by Volume: _____